

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D117-1044 REV. B OR LATER APPROVED REVISION AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D117-1044 REV. 0 OR LATER APPROVED REVISION

REF. FAA STC: SR02578SE

REF. EASA STC: 10065008

1.0 PURPOSE

It has come to Dart's attention that BK117 C-2/D-2 aircraft equipped with the P/N 232-713-00 Cargo Hook may encounter interference between the fwd cable assembly and the D5549-1 Fwd Beam that is part of D5549-011/-012 Fwd Beam Assemblies (LH/RH) that are installed as part of the D117-1044-113/-114 Quick Release Basket Mounting Provision Kits at CHG 001. The purpose of this DSI is to introduce an alternate D5549-5 Fwd Beam to prevent the fwd beam from interfering with the fwd cable assembly that is used on the P/N 232-713-00 Cargo Hook.

2.0 PROCEDURE

To install the D5549-5 Fwd Beam:

- 2.1 Remove the D5067-011/-012 Basket Assy, LH/RH per Section 25.1 of ICA-D117-1044.
- 2.2 Remove the D5549-011/-012 Fwd Beam Assy, LH/RH per Section 25.3 of ICA-D117-1044.
- 2.3 Remove 2x MS17984-C625 Quick Release Pins from D5549-011/-012 Fwd Beam, LH/RH and disconnect D2690-13 Lanyards. Discard D2690-13 Lanyards and retain the 2x MS17984-C625 Quick Release Pins.
- 2.4 Remove the following parts from the D5549-011/-012 Fwd Beam Assembly, LH/RH: D5549-1 Fwd Beam, D5550-041 Fwd Outboard Beam Assy, D5554-3 Bracket and 2x D5553-1 Brackets. Refer to Figures 25-8a/25-8b of ICA-D117-1044.
- 2.5 Re-install the following parts onto the new D5549-5 Fwd Beam: 2x D5553-1 Brackets, D5554-3 Bracket and D5550-041 Fwd Outboard Beam Assy in the same configuration as they were installed on the D5549-1 Fwd Beam as shown in Figure 1 (LH) or Figure 2 (RH) of this DSI. Torque fasteners per Table 5-2 of ICA-D117-1044.
- 2.6 Install 2x D2690-16 Lanyards the same way as the existing D2690-13 Lanyards were installed on the D5549-011/-012 Fwd Beam LH/RH, looping around the end pockets of the new D5549-5 Fwd Beam. Connect a MS17984-C625 Quick Release Pin to each D2690-16 Lanyard, as shown in Figure 1 (LH) or Figure 2 (RH) of this DSI.
- 2.7 Re-install the modified D5549-011/-012 Fwd Beam Assy, LH/RH per Section 25.1 of ICA-D117-1044.
- 2.8 Re-install the D5067-011/-012 Basket Assy per Section 25.2 of ICA-D117-1044.
- 2.9 Update the Aircraft Log Book to indicate installation of the DSI 9833-011 Alternate Fwd Beam Kit and adjust Weight and Balance Record for the aircraft with the weight and balance data provided in Section 3.0 of this document.

APPROVED

A	NEW ISSUE	RF	19.08.06
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE USA, INC. HILLSBORO, OR	
DRAWN	RF		
CHECKED	PM	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9833	SHEET 1 OF 4
APPROVED	VS	TITLE	SCALE
DE APPR.	DS	ALTERNATE FWD BEAM	NTS
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3.0 WEIGHT AND BALANCE

The following Weight and Balance is applicable when the D5549-5 Fwd Beam replaces the D5549-1 Fwd Beam as part of the DSI 9833-011 Alternate Fwd Beam Kit.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D117-1044-011/-012 (Heli-Utility-Basket™, LH/RH Install)	135 lb 61.2 kg	+/-40.5 in +/-1.03 m	+/-5468 in-lb +/-63.0 m-kg	167 in 4.24 m	22545 in-lb 259.5 m-kg
D117-1044-113/-114 (QR Basket Mounting Provision Kit, LH/RH Install, includes D117-1044-111 Crosstube Adapter kit above)	57 lb 25.9 kg	+/-14.7 in +/- .37 m	+/-838 in-lb +/-9.6 m-kg	167 in 4.24 m	9519 in-lb 109.8 m-kg

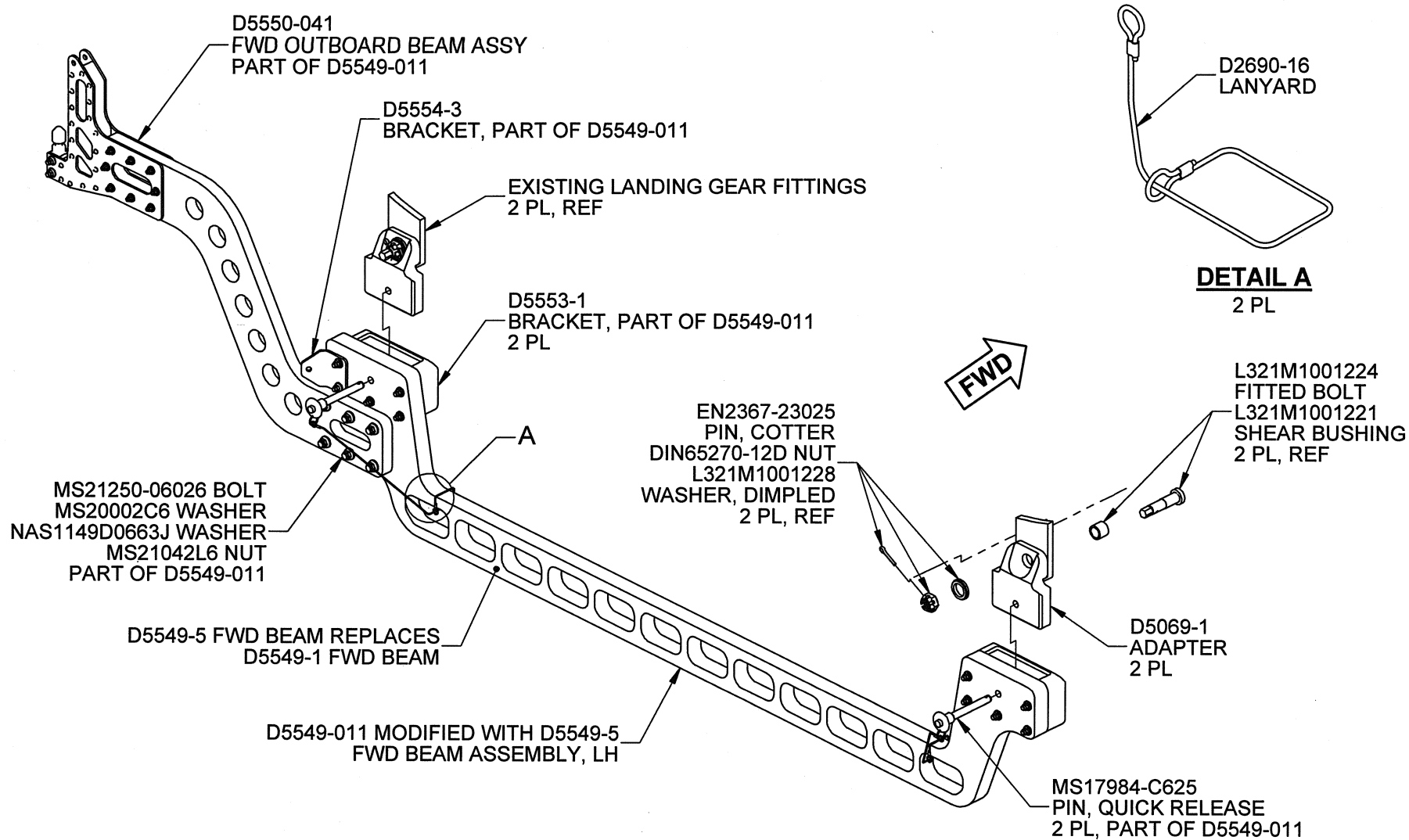
4.0 PARTS LIST

The quantity of components in the DSI 9833-011 Kit is as follows.

QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9833-011	ALTERNATE FWD BEAM KIT
1	D5549-5	FWD BEAM
2	D2690-16	LANYARD ASSEMBLY

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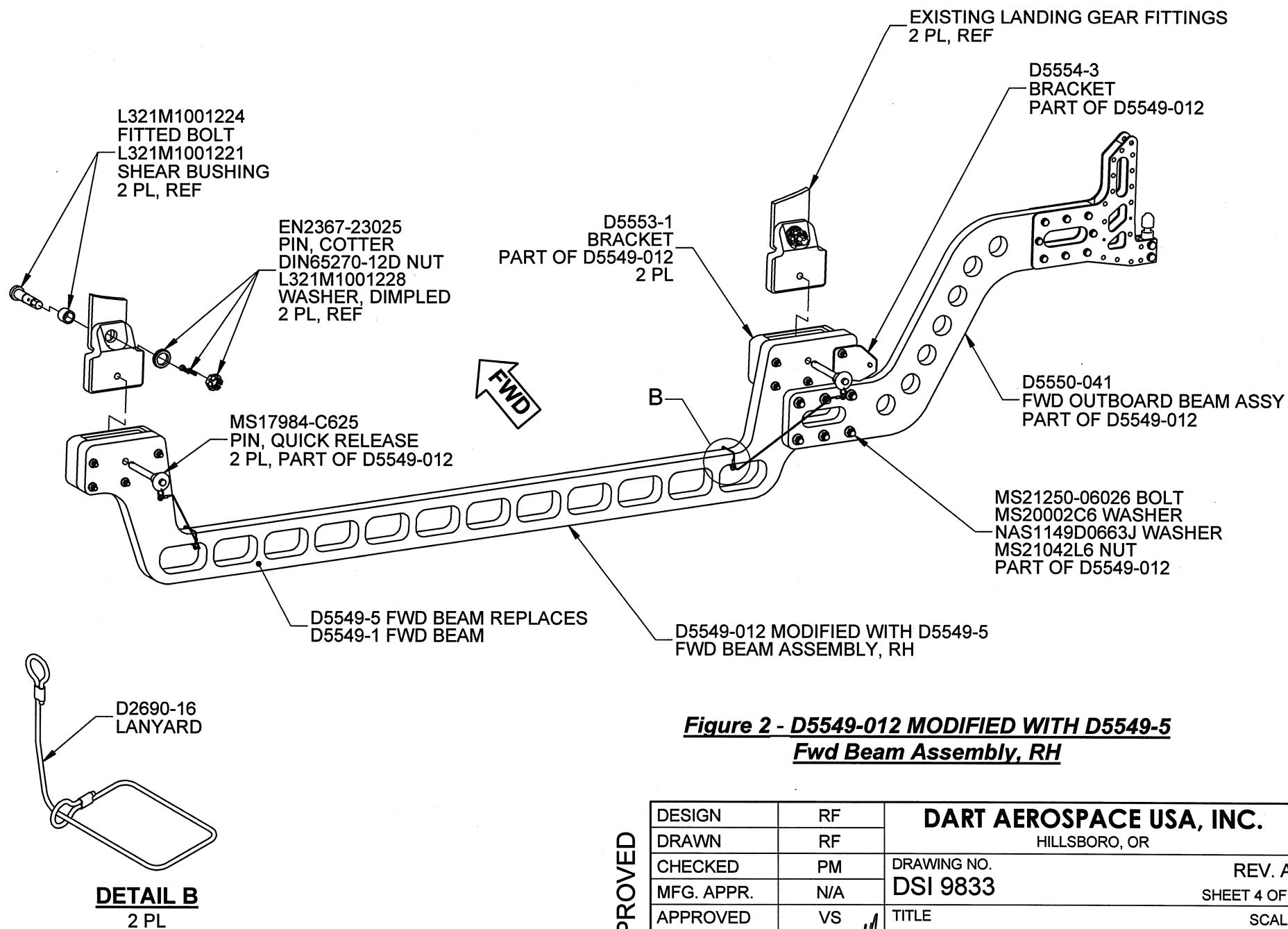
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**Figure 1 - D5549-011 MODIFIED WITH D5549-5
Fwd Beam Assembly, LH**

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**Figure 2 - D5549-012 MODIFIED WITH D5549-5
Fwd Beam Assembly, RH**

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